

ROBUST, LOW COMPLEXITY  
COMMUNICATIONS SYSTEM WITH  
INTERFERENCE MITIGATION

ABSTRACT OF THE DISCLOSURE

A system for short range communications includes a transmitter capable of transmitting a colored noise-like preamble. A receiver receives the colored noise-like preamble and the receiver includes an antenna with an antenna pattern. A direction of the antenna is controllable by the receiver. A signal processor is connected to and responsive to the receiver. The signal processor detects and estimates the strength of the colored noise-like preamble.

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